

AMENDMENTS TO THE CLAIMS

The listing of claims replaces all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Original) A configurable buss element for an electricity meter, the buss element comprising a conductive piece of metal formed into a series of contact connectors and a network of elongate conductors extending between and among the series of contact connectors, each of the plurality of contact connectors configured to contact a circuit element of an electricity meter, the network of elongate conductors operable to provide connectivity between the contact connectors and select portions of the conductive piece of metal in one of a plurality of connectivity configurations, each of the connectivity configurations corresponding to an electricity meter configuration, the select one of the plurality of connectivity configurations defined by a predetermined set of discontinuities introduced in the network of elongate conductors.
2. (Original) The configurable buss element of claim 1 further comprising a plastic housing affixed to the conductive piece of metal.
3. (Original) The configurable buss element of claim 2 wherein the plastic housing includes a first set of openings corresponding to the contact connectors.
4. (Original) The configurable buss element of claim 3, wherein the plastic includes

a set of indicia, the set of indicia disposed above select portions of the network of elongate connectors, the select portions of the network of elongate connectors constituting locations at which discontinuities may be introduced to form any of the plurality of connectivity configurations.

5. (Original) The configurable buss element of claim 1 further comprising a plastic housing overmolded onto the conductive piece of metal.

6. (Original) The configurable buss element of claim 1 wherein the conductive piece of metal comprises a phosphor bronze stamping.

7. (Original) The configurable buss element of claim 1 wherein at least one of the contact connectors is configured to receive a meter blade, the meter blade having an end configured to be received by a standard electricity meter socket.

8. (Original) The configurable buss element of claim 1 wherein the conductive piece of metal is further formed into connector contact pads formed in the network of elongate conductors.

9. (Original) A method of forming a connection between at least one sensor device of an electricity meter and at least one electrical component disposed on a circuit board, the method comprising:

- a) providing a conductive piece of metal formed into a series of contact connectors and a network of elongate conductors extending between and among the series of contact connectors,
- b) introducing one of a plurality of sets of discontinuities in the network elongate conductors, each of the plurality of sets of discontinuities in the network elongate conductors corresponding to one of a plurality of meter configurations;
- c) disposing at least part of a sensor device within one of a plurality of contact connectors formed in a conductive piece of metal.

10. (Original) The method of claim 9 wherein step a) further comprises providing a plastic housing affixed to the conductive piece of metal.

11. (Original) The method of claim 10 wherein step a) further comprises providing the plastic housing such that the plastic housing includes a first set of openings corresponding to the contact connectors.

12. (Original) The method of claim 11 wherein step a) further comprises providing a set of indicia in the plastic housing, the set of indicia disposed above select portions of the network of elongate connectors, the select portions of the network of elongate connectors constituting locations at which discontinuities may be introduced to form any of the plurality of connectivity configurations.

13. (Original) The method of claim 9 wherein step a) further comprises providing a

plastic housing overmolded onto the conductive piece of metal.

14. (Original) The method of claim 9 wherein step a) further comprises providing a phosphor bronze stamping as the conductive piece of metal.

15. (New) A configurable buss element for an electricity meter, the buss element comprising:

a unitary piece of metal formed into a series of contact connectors and a network of elongate conductors extending between and among the series of contact connectors, each of the plurality of contact connectors configured to contact a circuit element of the electricity meter, the network of elongate conductors operable to provide connectivity between the contact connectors and select portions of the unitary piece of metal in one of a plurality of connectivity configurations, each of the connectivity configurations corresponding to an electricity meter configuration;

a support member attached to the unitary piece of metal, the support member including a first plurality of openings providing access to predetermined portions of the network of elongate conductors, wherein connections between the elongate conductors are manipulated through the plurality of openings to form one of the plurality of connectivity configurations.

16. (New) The configurable buss element of claim 15, wherein the support member includes a second plurality of openings corresponding to the contact connectors.

17. (New) The configurable buss element of claim 16, wherein the support member includes a set of indicia, the set of indicia disposed above select portions of the network of elongate connectors, the select portions of the network of elongate connectors constituting locations at which discontinuities may be introduced to form any of the plurality of connectivity configurations.

18. (New) The configurable buss element of claim 15 wherein the unitary piece of metal comprises a phosphor bronze stamping.

19. (New) The configurable buss element of claim 15 wherein at least one of the contact connectors is configured to receive a meter blade, the meter blade having an end configured to be received by a standard electricity meter socket.